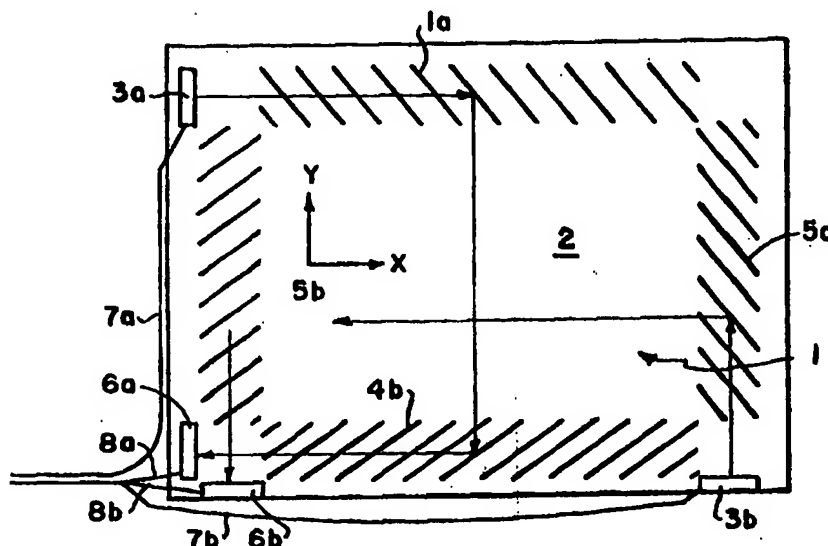




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G09G 5/00, G08C 21/00		A1	(11) International Publication Number: WO 98/52184
			(43) International Publication Date: 19 November 1998 (19.11.98)
(21) International Application Number: PCT/US98/08173 (22) International Filing Date: 23 April 1998 (23.04.98) (30) Priority Data: 9/123858 14 May 1997 (14.05.97) JP 08/904,670 1 August 1997 (01.08.97) US 08/954,838 21 October 1997 (21.10.97) US (71) Applicant: ELO TOUCHSYSTEMS, INC. [US/US]; 41752 Christy Street, Fremont, CA 94538 (US). (72) Inventors: KENT, Joel; 35937 Gaskell Court, Fremont, CA 94536 (US). TSUMURA, Masahiro; 2-140-1, Hamadera-minami-machi, Sakai-si, Osaka (JP). (74) Agent: MILDE, Karl, F., Jr.; Milde, Hoffberg & Macklin, LLP, Suite 460, 10 Bank Street, White Plains, NY 10606 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, KE, KG, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	

(54) Title: ACOUSTIC TOUCH POSITION SENSOR USING A LOW ACOUSTIC LOSS TRANSPARENT SUBSTRATE



(57) Abstract

An acoustic touch panel (100) utilizes acoustic waves within a sensor substrate to determine the position of touch. The substrate (1) is made of a glass having an attenuation coefficient of less than or equal to about 0.6 dB/cm as determined at the substrate surface for 5.53 MHz Rayleigh waves as measured by the slope of a plot of amplitude versus distance for a signal through a pair of facing 0.5 inch wide wedge transducers mounted on the glass under test having sufficient thickness to support Rayleigh wave propagation.